\_\_\_\_\_\_

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2009; month=5; day=4; hr=20; min=35; sec=37; ms=101; ]

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## Validated By CRFValidator v 1.0.3

Application No: 10540843 Version No: 2.0

Input Set:

Output Set:

**Started:** 2009-04-27 18:07:13.407

**Finished:** 2009-04-27 18:07:16.405

**Elapsed:** 0 hr(s) 0 min(s) 2 sec(s) 998 ms

Total Warnings: 92

Total Errors: 0

No. of SeqIDs Defined: 100

Actual SeqID Count: 100

Error code		Error Description										
W	402	Undefined organism found in <213> in SEQ ID (1)										
W	402	Undefined organism found in <213> in SEQ ID (2)										
W	402	Undefined organism found in <213> in SEQ ID (3)										
W	402	Undefined organism found in <213> in SEQ ID (4)										
W	402	Undefined organism found in <213> in SEQ ID (5)										
W	402	Undefined organism found in <213> in SEQ ID (6)										
W	402	Undefined organism found in <213> in SEQ ID (7)										
W	402	Undefined organism found in <213> in SEQ ID (8)										
W	402	Undefined organism found in <213> in SEQ ID (9)										
W	402	Undefined organism found in <213> in SEQ ID (14)										
W	402	Undefined organism found in <213> in SEQ ID (15)										
W	402	Undefined organism found in <213> in SEQ ID (20)										
W	213	Artificial or Unknown found in <213> in SEQ ID (21)										
W	213	Artificial or Unknown found in <213> in SEQ ID (22)										
W	213	Artificial or Unknown found in <213> in SEQ ID (23)										
W	213	Artificial or Unknown found in <213> in SEQ ID (24)										
W	213	Artificial or Unknown found in <213> in SEQ ID (25)										
W	213	Artificial or Unknown found in <213> in SEQ ID (26)										
W	213	Artificial or Unknown found in <213> in SEQ ID (27)										
W	213	Artificial or Unknown found in <213> in SEQ ID (28)										

## Input Set:

## Output Set:

**Started:** 2009-04-27 18:07:13.407

Finished: 2009-04-27 18:07:16.405

**Elapsed:** 0 hr(s) 0 min(s) 2 sec(s) 998 ms

Total Warnings: 92

Total Errors: 0

No. of SeqIDs Defined: 100

Actual SeqID Count: 100

Error code		Error Description											
W	213	Artificial or Unknown found in <213> in SEQ ID (29)											
W	213	Artificial or Unknown found in <213> in SEQ ID (30)											
W	213	Artificial or Unknown found in <213> in SEQ ID (31)											
W	213	Artificial or Unknown found in <213> in SEQ ID (32)											
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W	213	Artificial or Unknown found in <213> in SEQ ID (36)											
W	213	Artificial or Unknown found in <213> in SEQ ID (37)											
W	213	Artificial or Unknown found in <213> in SEQ ID (38)											
W	213	Artificial or Unknown found in <213> in SEQ ID (39)											
W	213	Artificial or Unknown found in <213> in SEQ ID (40) This error has occured more than 20 times, will not be displayed											

## SEQUENCE LISTING

<110> Mariscal-Gonzalez, Lorenza Nava-Dominguez, Porfiro

<120> EMPLOYMENT OF ROTAVIRUS PROTEINS,

DERIVED PROTEINS AND PEPTIDES FOR THE MODULATION OF TISSUE
PERMEABILITY

<130> UHT1.001APC

<140> 10540843

<141> 2006-05-18

<150> PCT/IB03/00280

<151> 2003-01-10

<160> 100

<170> FastSEQ for Windows Version 4.0

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<211> 776

<212> PRT

<213> Rhesus Monkey Rotavirus

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20 25 30

Val Thr Ile Asn Leu Gly Pro Phe Ala Gln Thr Gly Tyr Ala Pro Val 35 40 45

Asn Trp Gly Pro Gly Glu Thr Asn Asp Ser Thr Thr Val Glu Pro Val
50 55 60

Leu Asp Gly Pro Tyr Gln Pro Thr Ser Phe Asn Pro Pro Val Asp Tyr 65 70 75 80

Trp Met Leu Leu Ala Pro Thr Ala Ala Gly Val Val Glu Gly Thr
85 90 95

Asn Asn Thr Asp Arg Trp Leu Ala Thr Ile Leu Val Glu Pro Asn Val
100 105 110

Thr Ser Glu Thr Arg Ser Tyr Thr Leu Phe Gly Thr Gln Glu Gln Ile 115 120 125

Thr Ile Ala Tyr Ala Ser Gln Thr Gln Trp Lys Phe Ile Asp Val Val 130 135 140

Lys Thr Thr Gln Asn Gly Ser Tyr Ser Gln Tyr Gly Pro Leu Gln Ser 145 150 155 160

Thr Pro Lys Leu Tyr Ala Val Met Lys His Asn Gly Lys Ile Tyr Thr

Tyr Asn Gly Glu Thr Pro Asn Val Thr Thr Lys Tyr Tyr Ser Thr Thr 180 185 190

Asn Tyr Asp Ser Val Asn Met Thr Ala Phe Cys Asp Phe Tyr Ile Ile 195 200 205

Pro Arg Glu Glu Ser Thr Cys Thr Glu Tyr Ile Asn Asn Gly Leu

210 215 220

Pro	Pro	Tle	Gln	Δan	Thr	Δra	Δan	Tlo	Val	Pro	T.011	Δla	T.011	Sar	Δla
225	110	110	OIII	11511	230	1119	11511	110	vai	235	шси	1114	пси	DCI	240
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Ser	Lys	Thr	Ser 260		Trp	Lys	Glu	Met 265		Tyr	Asn	Arg	Asp 270		Thr
Ile	Arg	Phe 275		Phe	Ala	Ser	Ser 280		Val	Lys	Ser	Gly 285		Leu	Gly
Tyr	Lys 290		Ser	Glu	Ile	Ser 295		Lys	Pro	Ala	Asn 300		Gln	Tyr	Thr
Tyr 305	Thr	Arg	Asp	Gly	Glu 310		Val	Thr	Ala	His		Thr	CÀa	Ser	Val
	Gly	Met	Asn	Asp 325		Asn	Phe	Asn	Gly 330		Ser	Leu	Pro	Thr	
Phe	Ile	Ile	Ser 340		Tyr	Glu	Val	Ile 345		Glu	Asn	Ser	Tyr 350		Tyr
Val	Asp	Tyr 355		Asp	Asp	Ser	Gln 360		Phe	Arg	Asn	Met 365		Tyr	Val
Arg	Ser 370		Ala	Ala	Asn	Leu 375		Ser	Val	Ile	Cys		Gly	Gly	Asp
Tyr 385	Ser	Phe	Ala	Leu	Pro 390		Gly	Gln	Trp	Pro 395		Met	Thr	Gly	Gly 400
	Val	Ser	Leu	His		Ala	Gly	Val	Thr 410		Ser	Thr	Gln	Phe	
Asp	Phe	Val	Ser 420		Asn	Ser	Leu	Arg 425		Arg	Phe	Arg	Leu 430		Val
Glu	Glu	Pro 435		Phe	Ser	Ile	Thr		Thr	Arg	Val	Gly 445		Leu	Tyr
Gly	Leu 450		Ala	Ala	Tyr	Pro 455		Asn	Gly	Lys	Glu 460		Tyr	Glu	Val
Ala 465	Gly	Arg	Leu	Ser	Leu 470		Ser	Leu	Val	Pro		Asn	Asp	Asp	Tyr 480
	Thr	Pro	Ile			Ser	Val	Thr			Gln	Asp	Leu		
Gln	Leu	Gly		485 Leu	Arg	Glu	Glu		490 Asn	Ala	Leu	Ser		495 Glu	Ile
Ala	Met		500 Gln	Leu	Ile	Tyr		505 Ala	Leu	Leu	Pro		510 Asp	Met	Phe
Ser	Met	515 Phe	Ser	Gly	Ile	-	520 Ser	Thr	Ile	Asp	Ala 540	525 Ala	Lys	Ser	Met
Ala 545	530 Thr	Ser	Val	Met	Lys 550	535 Lys	Phe	Lys	Lys	Ser 555		Leu	Ala	Asn	Ser 560
	Ser	Thr	Leu	Thr 565		Ser	Leu	Ser	Asp 570		Ala	Ser	Ser	Ile 575	
Arg	Gly	Ala	Ser 580		Arg	Ser	Val	Gly 585		Ser	Ala	Ser	Ala 590		Thr
Asp	Val	Ser 595		Gln	Ile	Thr	Asp		Ser	Ser	Ser	Val		Ser	Ile
Ser	Thr 610		Thr	Ser	Thr	Ile 615		Arg	Arg	Leu	Arg 620		Lys	Glu	Met
	Thr	Gln	Thr	Glu	_		Asn	Phe	Asp	_		Ser	Ala	Ala	
625 Leu	Lys	Thr	Lys		630 Asp	Arg	Ser	Thr		635 Ile	Ser	Pro	Asn		640 Leu
Pro	Asp	Ile		645 Thr	Glu	Ala	Ser		650 Lys	Phe	Ile	Pro		655 Arg	Ala
Tyr	Arg	Val	660 Ile	Asn	Asn	Asp	Glu	665 Val	Phe	Glu	Ala	Gly	670 Thr	Asp	Gly

675 680 Arg Tyr Phe Ala Tyr Arg Val Glu Thr Phe Asp Glu Ile Pro Phe Asp 695 Val Gln Lys Phe Ala Asp Leu Val Thr Asp Ser Pro Val Ile Ser Ala 710 715 Ile Ile Asp Phe Lys Thr Leu Lys Asn Leu Asn Asp Asn Tyr Gly Ile 725 730 Ser Arg Gln Gln Ala Phe Asn Leu Leu Arg Ser Asp Pro Arg Val Leu 745 Arg Glu Phe Ile Asn Gln Asp Asn Pro Ile Ile Arg Asn Arg Ile Glu 760 Gln Leu Ile Met Gln Cys Arg Leu 770 775 <210> 2 <211> 231 <212> PRT <213> Rhesus Monkey Rotavirus <400> 2 Met Ala Ser Leu Ile Tyr Arg Gln Leu Leu Thr Asn Ser Tyr Thr Val 10 1 Asp Leu Ser Asp Glu Ile Gln Glu Ile Gly Ser Thr Lys Thr Gln Asn 25 Val Thr Ile Asn Leu Gly Pro Phe Ala Gln Thr Gly Tyr Ala Pro Val 40 Asn Trp Gly Pro Gly Glu Thr Asn Asp Ser Thr Thr Val Glu Pro Val 5.5 Leu Asp Gly Pro Tyr Gln Pro Thr Ser Phe Asn Pro Pro Val Asp Tyr 70 75 Trp Met Leu Leu Ala Pro Thr Ala Ala Gly Val Val Glu Gly Thr 85 90 Asn Asn Thr Asp Arg Trp Leu Ala Thr Ile Leu Val Glu Pro Asn Val 100 105 Thr Ser Glu Thr Arg Ser Tyr Thr Leu Phe Gly Thr Gln Glu Gln Ile 120 Thr Ile Ala Tyr Ala Ser Gln Thr Gln Trp Lys Phe Ile Asp Val Val 140 135 Lys Thr Thr Gln Asn Gly Ser Tyr Ser Gln Tyr Gly Pro Leu Gln Ser 145 150 Thr Pro Lys Leu Tyr Ala Val Met Lys His Asn Gly Lys Ile Tyr Thr 170 165 Tyr Asn Gly Glu Thr Pro Asn Val Thr Thr Lys Tyr Tyr Ser Thr Thr 180 185 Asn Tyr Asp Ser Val Asn Met Thr Ala Phe Cys Asp Phe Tyr Ile Ile 200 Pro Arg Glu Glu Ser Thr Cys Thr Glu Tyr Ile Asn Asn Gly Leu 220 215 Pro Pro Ile Gln Asn Thr Arg

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<212> PRT

<213> Rhesus Monkey Rotavirus

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          20
                                                  30
Lys Ile Tyr Thr Tyr Asn Gly Glu Thr Pro
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1 5

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Gly Tyr Gly Tyr Gly Tyr Gly Gly Tyr Thr Asp Pro Arg
35 40 45

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<211> 44

<212> PRT

<213> Mus musculus

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<213> Rattus norvegicus

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Tyr Gly Ser Gly Phe Gly Ser Tyr Gly Gly Gly Phe Gly Gly Tyr Gly
20 25 30

35 40 45

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<211> 46

<212> PRT

<213> Homo sapiens

<400> 12

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Tyr Gly Tyr Gly Tyr Gly Tyr Gly Gly Tyr Thr Asp Pro Arg 35 40 45

<210> 13

<211> 44

<212> PRT

<213> Gallus gallus

<400> 13

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1 10 15

Phe Tyr Gly Ser Asn Tyr Tyr Gly Ser Gly Leu Ser Tyr Ser Tyr Gly 20 25 30

Tyr Gly Gly Tyr Tyr Gly Gly Val Asn Gln Arg Thr 35

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<213> Dipodomys simulans

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Ser Tyr Tyr Asn Gly Tyr Tyr Gly Gly Tyr Asn Gly Tyr Tyr Tyr Gly 20 25 30

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Gln Tyr Leu Tyr His Tyr Cys Val Val Asp Pro Gln Glu

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<213> Homo sapiens

35

<400> 18

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20 25 30

Gln Tyr Leu Tyr His Tyr Cys Val Val Asp Pro Gln Glu 35 40 45

<210> 19

<211> 41

<212> PRT

<213> Gallus gallus

<400> 19

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His Tyr Cys Thr Val Asp Pro Gln Glu
35 40

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<213> Dipodomys simulans

<400> 20

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1 10 15

Met Leu Met Leu Cys Asn Gln Met Met Ser Pro Val Ala Gly Gly Ile 20 25 30 35 40 45

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Thr Arg Ser Tyr Thr Leu
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<210> 29

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